

Figure 1

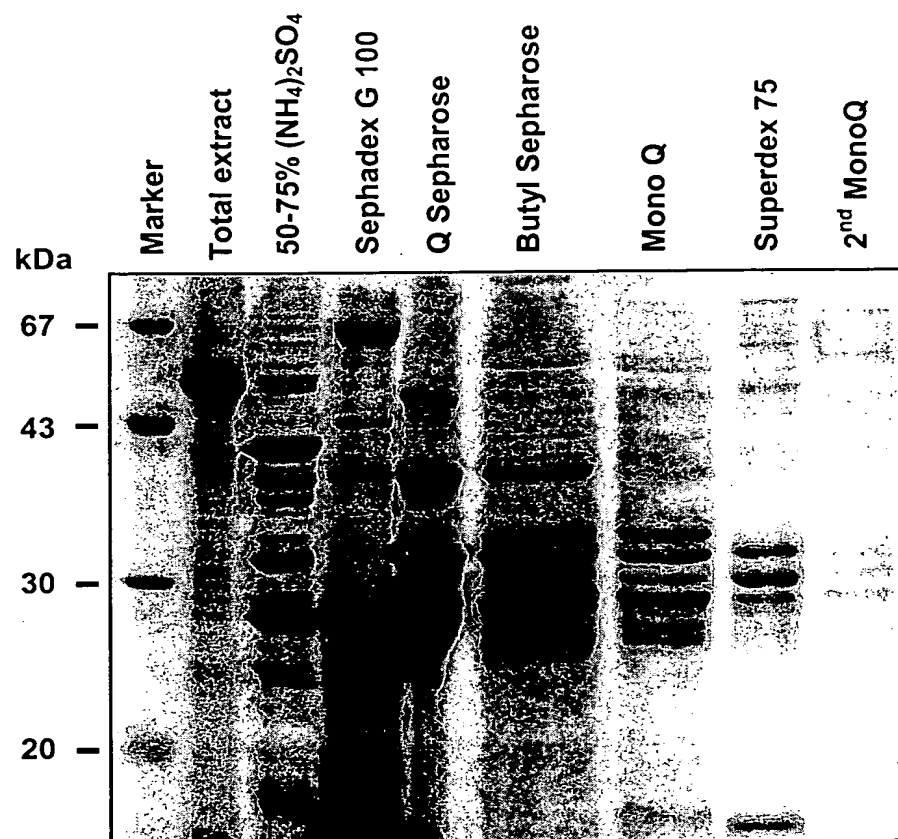


Figure 2

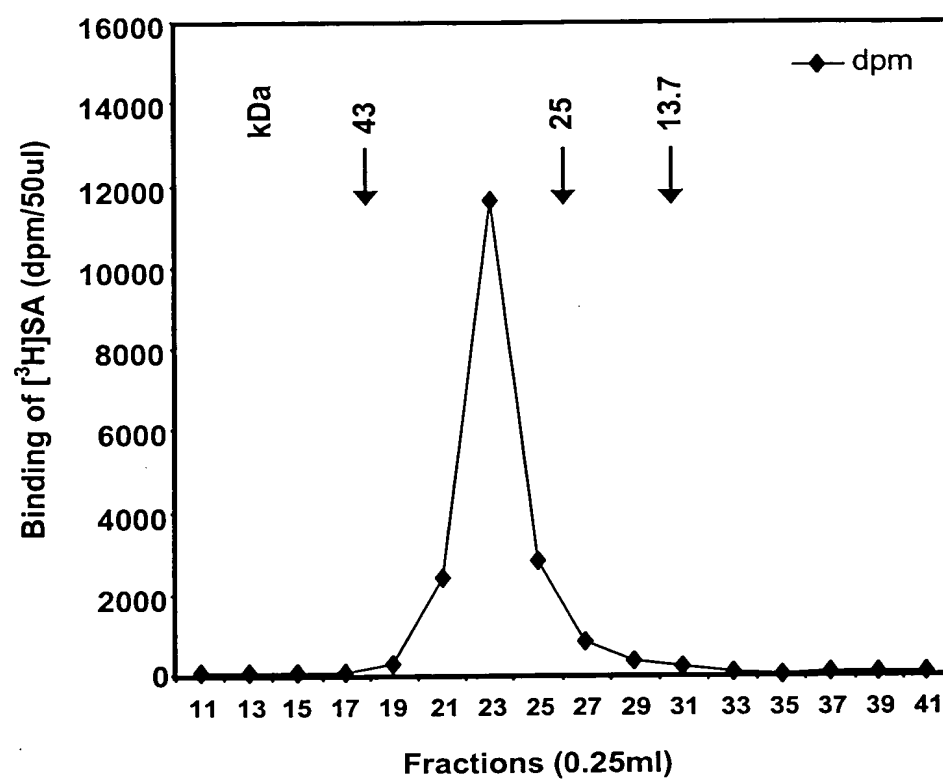
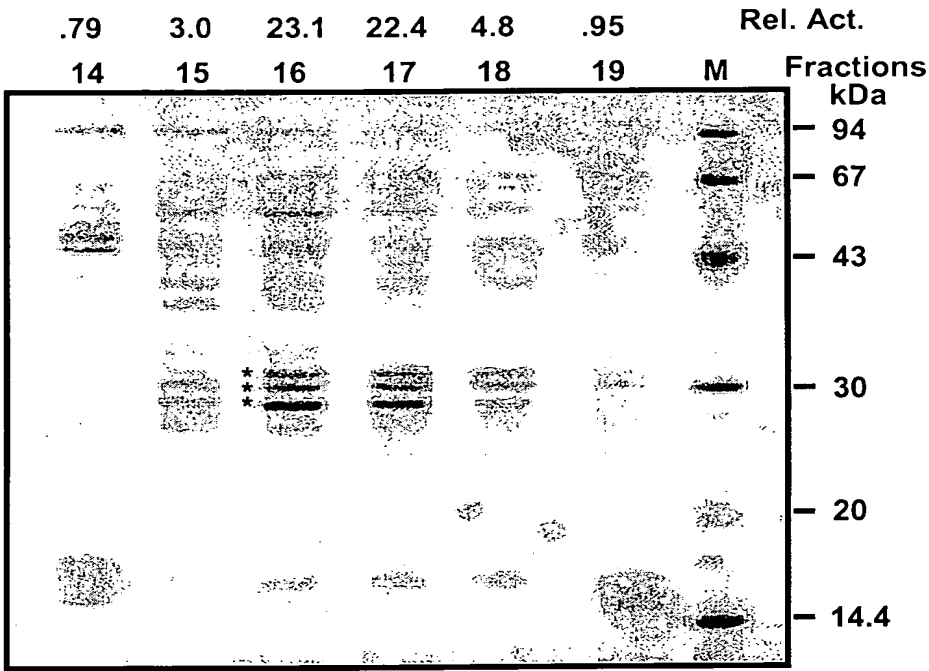


Figure 3



1	acgcggggaagaaagaactaacaggcataataattcaa	ATG AAG GAA GGA AAA CAC TTT GTT TTA GTA CAT GGT GCA TGC	83
1	M K E G K H F V L V H G A C		14
84	CAT GGA GGT TGG AGT TGG TAC AAG CTA AAG CCA CTG CTA GAA GCT GCA GGC CAT AAG GTT ACA GCC CTT GAT TTA	158	
15	H G G W S W Y K L K P L L E A A G H K V T A L D L	39	
159	GCA GCT TCT GGC ACT GAT TTG AGA AAA ATA GAG GAG CTT CGC ACA CTT TAT GAT TAT ACT TTG CCA TTG ATG GAG	233	
40	A A S G T D L R K I E E L R T L Y D Y T L P L M E	64	
	<u>peptide # 1 (pk22a, pk23 & pk55*)</u>		
234	TTG ATG GAA TCT CTT TCA GCA GAT GAG AAG GTT ATA TTA GTG GGG CAT AGT CTT GGT GGT ATG AAT TTG GGA CTT	308	
65	L M E S L S A D E K V I L V G H S L G G M N L G L	89	
309	GCT ATG GAA AAG TAT CCA CAA AAG ATC TAT GCT GCT TTC TTG GCT GCT TCT ATG CCT GAT TCT GTT CAC AAC	383	
90	A M E K Y P Q K I Y A A V F L A A F M P D S V H N	114	
384	TCC TCC TTT GTT TTG GAA CAG TAT AAT GAG CGG ACG CCA GCC GAG AAT TGG TTG GAT ACT CAG TTT TTA CCA TAT	458	
115	S S F V L E Q Y N E R T P A E N W L D T Q F L P Y	139	
459	GGT TCC CCT GAA GAG CCA CTG ACA TCC ATG TTT TTT GGC CCA AAG TTC TTG GCT CAC AAG CTC TAC CAG CTA TGC	533	
140	G S P E E P L T S M F F G P K F L A H K L Y Q L C	164	
	<u>peptide # 3 (pk29)</u>		
534	TCT CCT GAG GAT CTT GCA TTA GCA TCA TCA TTG GTG AGA CCA AGC TCT TTG TTT ATG GAA GAC CTA TCG AAG GCC	608	
165	S P E D L A L A S S L V R P S S L F M E D L S K A	189	
609	AAG TAT TTC ACA GAT GAA CGG TTT GGA TCA GTG AAG AGA GTT TAC ATT GTG TGC ACT GAG GAT AAA GGC ATA CCA	683	
190	K Y F T D E R F G S V K R V Y I V C T E D K G I P	214	
	<u>peptide # 5 (pk30 & pkx)</u>		
684	GAA GAA TTC CAG CGA TGG CAA ATT GAC AAC ATT GGT GTC ACT GAA GCA ATA GAG ATT AAA GGT GCT GAT CAC	758	
215	E E F Q R W Q I D N I G V T E A I E I K G A D H M	239	
759	GCA ATG CTA TGC GAG CCC CAA AAA CTT TGC GCC TCT CTC TTG GAA ATT GCC CAT AAA TAC AAC TGA tctctacatt	834	
240	A M L C E P Q K L C A S L L E I A H K Y N *	261	
837	atgtcttcgtcatgtcaagattttcagtgcatgtgtgaatttttctatttttcgaaccggcgcaataactgtctttgacctattttaaggattgcagt	933	
937	aatttcactcttctagtggaaggctccacataaggattgttctgtttctccattccaagtggttatgttgagatacttaaacgatatcaattct	1032	
1037	tgtaatgaaaacttcttcttcttcttbtgaaaaaataaaaaaaaaaaaaa	1079	

SABP2-*N. tabacum* MKEGK----HFVLVHGHAGCHGWWSYWKLPLEEAAGHKVTALDLAASGTD-LRKIEELRTL 55
A. thaliana MSECKR-KQHFLVLVHGSGHAWCWYKVPLLEAVGHRVTAVDLAASGITDTRSITDIPTC 59
M. esculenta MAVDV-----FVLIIHTICHGAWIYWKLPLEEAAGHKVTALDLAASGDV-PRQIEQINSF 54
H. brasiliensis MAFAH-----FVLIHTICHGAWIWKLPLEEALGHKVTALDLAASGVDP-PROJEEIGSF 54
PIR7B MEISSSSKKHFIHVHGLCHGAWCYWRVVAALRAAGHRATALDMAASGAH-PARVDEVGTF 59
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SABP2-*N. tabacum* YDYTLPLMELMESLSA-DEKVLVGSHLGSSMNLGLAMEKYPKIYA AVFLAAFPDPSVHN 114
A. thaliana EQYSEPLTKLLTSLPN-DEKVVLVGHSGCGGLNIAIMEKFPKKSIAAVFLTAFMPDTEHS 118
M. esculenta DEYSEPLLTMESLPQ-GEKVLIVGESBCGGLNIAIADDKYPEKIAAAVFQNSSLPDTHKH 113
H. brasiliensis DEYSEPLLTFLEALPP-GEKVLIVGESBCGGLNIAIADKYCEKIAAAVFHNSVLPDTEHC 113
PIR7B EYSRPLLDVA AAAAAPGERLVLVGHSHGGLSVALAMERFPDKVAAA VFVAAAMPVCVGKH 119
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SABP2-*N. tabacum* SSFVLEQYN-ERTPAENWLDQTFLPYGS-PEEPLTSMFFGPKFLAHKLYQLCSPEDLALA 172
A. thaliana PSFVLDKFG-SNMPPQDWKGETEFEPYGs-DNSGLS-MFFSPDFMKLGlyQLSPVEDLELG 175
M. esculenta PSYVVDKLM-EVFP--DKMDTEYFEFSNSNGETITGMVLGLKLRENLYTICPPDEYELA 170
H. brasiliensis PSYVVDKLM-EVFP--DKMDTTYFTYTgK-DGKEITGLKLGTLLRENLYTLCGPPEYEla 169
PIR7B MGVPTEEFMRRTAPEGLLMDCEMVAINNSQGSGVA-INLGPTFLAQKYQQSPAEDLALA 178
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SABP2-*N. tabacum* SSLVRPSSLFMEDLSKAK--YFTDERFGSVKRVIYVCTEDKGIP EEFQRWQIDNIGVTEA 230
A. thaliana LLLMRPGSLFINDSLKMk--NFSDEGYGSVPRVFI VCKEDKAIP EERQRWMIDNFPNVLV 238
M. esculenta KMLTRRGSLFGSILAQR--KFTEGYGSIKKIYVWTGDDKIFLPEFQLWG IENYKPDLV 223
H. brasiliensis KMLTRKGS LFQNILAKRP--FFTKEGYGSIKKIYVWTG DQEIFLPEFQLWG IENYKPKDV 227
PIR7B KMLVRPNGQFMDDPVMKDESLLTNGNYGSVKKIYVIAKADSSSTEEMQRWVMAMSPGTDV 238
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SABP2-*N. tabacum* IEIKGADHMAMLCEPQKLCASLLEIAHKFY 260
A. thaliana MEMEETHDMPMFCFKPQQLSDYFLKIADKFV 263
M. esculenta FRVMGGDHKLQLTKTNEIAGILQKVADIYA 258
H. brasiliensis YKVEGGDHKLQLTKTKEIAEILQEVADTYN 257
PIR7B EEIAGADHAVMNSKPRELCDILIKIANKY 268
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Fig. 6A



Fig. 6B

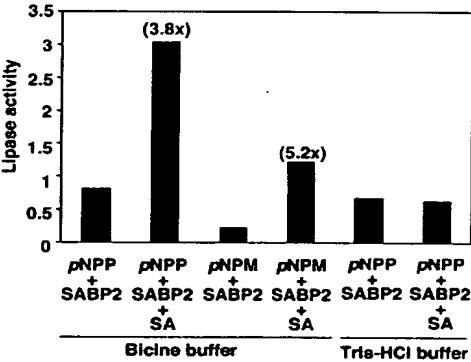


Fig. 7A

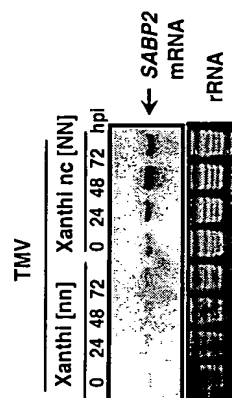
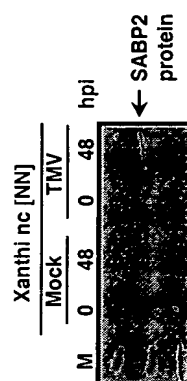


Fig. 7B



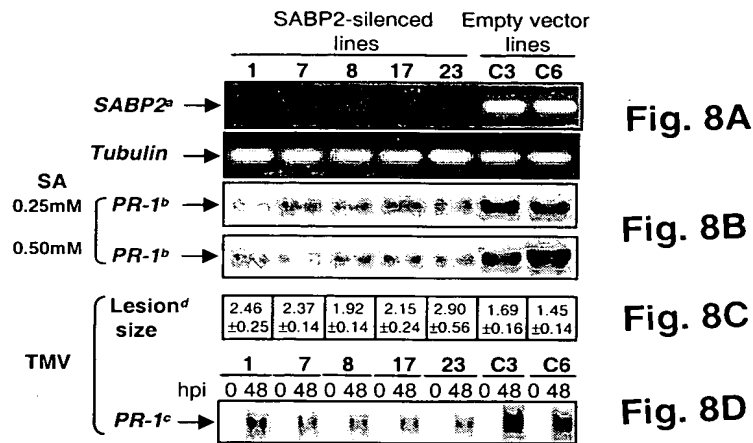


Fig. 8E

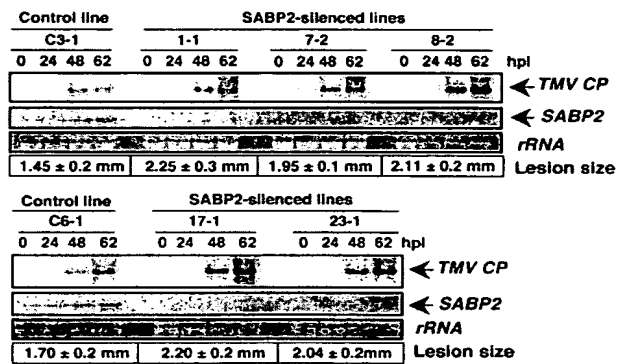


Fig. 8F

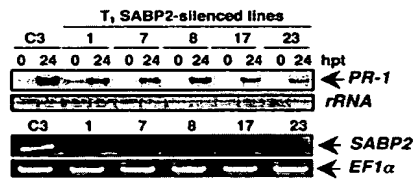


Fig. 8G

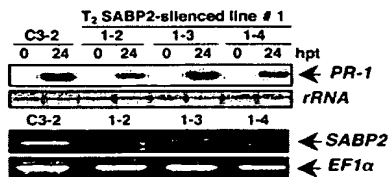


Fig. 9A

Lines	TMV lesion size \pm SD (mm)		SAR
	Primary Infection	Secondary Infection	
Control	1.71 \pm 0.19	0.85 \pm 0.25	yes
SABP2-silenced	2.08 \pm 0.12	2.19 \pm 0.31	no

Fig. 9B

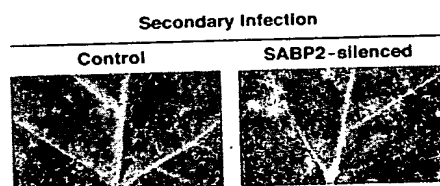
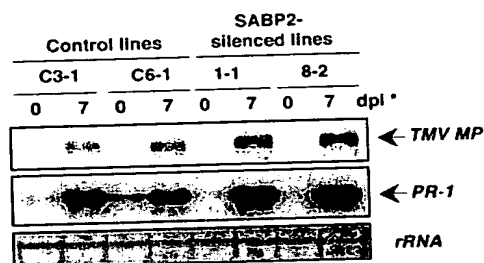


Fig. 9C



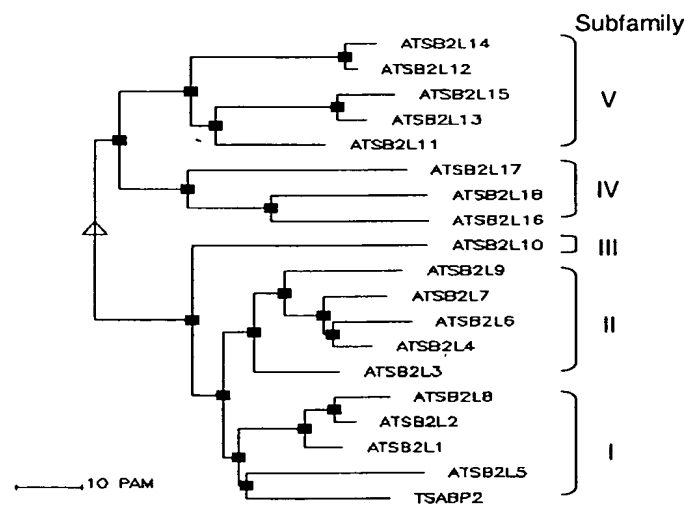


Figure 10